We Claim:

1. A data bus configuration, comprising:

at least one control station;

at least one reception station;

a data bus operated in a multiplex mode and connected to said control station and to said reception station; and

a control bus connected to said control station and to said reception station, and through said control bus said control station allocating a logical channel to said reception station.

2. A method for operating a data bus configuration having at least one control station, at least one reception station, a data bus operated in a multiplex mode and connected to the control station and to the reception station, and a control bus connected to the control station and to the reception station, which comprises the steps of:

using the control station to transfer an address onto the data bus for soliciting the reception station;

allocating a logical channel to the reception station through the control bus; and

interchanging data between the control station and the reception station for as long as the logical channel remains allocated to the reception station and is called.

3. The method according to claim 2, which further comprises soliciting the reception station through the control bus by calling the logical channel at a same time as a transfer of the data.

4. The method according to claim 2, which further comprises soliciting the reception station through the control bus by calling the logical channel before a transfer of the data.